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नई विल्ली, शनिवार, फरवरी 27, 1982 (फाल्गुन 8, 1903)

No. 9]

NEW DELHI, SATURDAY, FEBRUARY 27, 1982 (PHALGUNA 8, 1903)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके। Separate paging is given to this Part in order that it may be filed as a separate compilation.

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस [Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 27th February 1982

CORRIGENDUM

In the Gazette of India, Part III, Section 2 dated the 16th January 1982 under the heading "PATENTS SEALED" for 148674 read 148684.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017.

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

21st January 1982

- 80/Cal/82. Samar Lal Maitta. A useful combination of a radio, a tape-recorder and a time piece (hereinafter will be said as RTT).
- 81/Cal/82. Combustion Engineering, Inc. Hybrid Fluidized bed combuster.
- 82/Cal/82. Aziende Chimiche Riunite Angelini Francesco A.C.R.A.F. S.P.A. [(1-Benzyl-1h-indazol-3-yl) oxy] acetic acid salt with lysine.
- 83/Cal/82. Ruti-Te Strake B. V. Device for inserting a pick into the weaving shed of a pneumatic loom
- 84/Cal/82. Bruno Zwahlen Ag. Combination tool.
- 85/Cal/82. Wilkinson Sword Limited. Razors and Shaving Units for razors. (January 21, 1981).
- 86/CaI/82. Victor Company of Japan, Ltd. Tape Cassette.
- 87/Cal/82. Victor Company of Japan, Itd. Miniature type tape cassette.

22nd January 1982

- 88/Cal/82. Bethlehem Steel Corporation. Mineral wool and process for producing same.
- 89/Cal/82, Rosemount Inc. "Reactance Measurement Circuit."
- 90/Cal/82. Robert Victor Wilson. Chemical Toilets. (January 23, 1981).
- 91/Cal/82. Westinghouse Electric Corporation, Lightweight electronic ballast for fluorescent lamps.
- 92/Cal/82. Skf Kugellagerfabriken GmbH. Fension roller arrangement on tangential-belt drives for spindles of spinning and twisting frames.
- 93/Cal/82. Toyo Engineering Corporation and Mitsui Toatsu Chemicals, Incorporated. A process for manufacturing urea.
- 94/Cal/82. Buen Asbyrn, Hollow Building Block and Building Block System.
- 95/Cal/82. N. V. Transworld Marine Agency Cy. S.A. Self-Locking Slings.
- 96/Cal/82 Degussa Aktiengesellschaft. Process for the preparation of watery solutions of sodium methionate.

25th January 1982

- 97/Cal/82. Samir Kumar Ghosh. Petrol-cum-Steam Engine.
- 98/Cal/82. Toshin Kogyo Co., Ltd. Apparatus for intermittently driving endless belt in automatic screen printing machine.
- 99/Cal/82. Societe Nationale Industrielle Acrospatiate.

 Method of ground illumination and calculation of the dielectric constant and conductivity thereof by means of electromagnetic pulse, and simulator for carrying out such method.
- 100/Cal/82. American Standard Inc. Inshot valve arrange ment for railway brake control apparatus employ ing combined air reservoir/cylinder device.

1-477GI/81

101/Cal/82. E.I. Du Pont De Nemours and Company. Azo Pigments.

27th January 1982

- 102/Cal/82. M.A.N. Maschinenfabrik Augsburgnumberg
 Aktiengesellschaft. Schling system for wet cylinder liners.
- 103/Cal/82. Hans Osterrath. Self-Heating or self-Cooling Vessel.
- 104/Cal/82. Flogates Limited. MetalPouring Apparatus and method. (February 12, 1981).
- 105/Cal/82. General Electric Company. Surface characteristics of Boron rich cubic boron nitride.
- 106/Cal/82. Norton Company. Abrasive Articles.
- 107/Cal/82. Sri Shekhar Mitra. Optical tinting mechanism.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, AT TODI ESTATES, III FLOOR, SUNMILL COMPOUND LOWER PAREL(W) BOMBAY-400013

9th December 1981

- 1. 333/Bom/81 Ganpat Chandusa Solanki. An improved aerated water preparing and dispensing machine.
- 334/Bom/81 Pieco Electronic & Electricals Limited. An improved impendence comparator.
- 3. 335/Bom/81 Padmanna Jambu Chaugule, R. C. C. beams for floors and roofs.

14th December 1981

- 336/Bom/81 Vasant Krishnaji Vhatkar. A process for the enrichment of low grade aluminous iron ore.
- 5. 337/Bom/81 Bhushan Lal Mittal. Centrifugal apparatus.
- 6, 338/Bom/81 Birla Research Institute for Applied Sciences. Process for the manufacture of high strength supercrimped viscose rayon fabrics.
- 7. 339/Bom/81 Shrikant Gajanan Pawar. New method to recover waste heat from an I.C. Engine plant.

15th December 1981

8. 340/Bom/81 Priyal Khanderao Kulkarni and another.

Rain water deflector to protect external walls of buildings from soiling.

16th December 1981

9. 341/Bom/81 Suresh T. Vishnani and another. Improved tester.

17th December 1981

 342/Bom/81 M/s. Camphor & Allied Products Limited. Improvements in or relating to a process for the preparation of alkyl chrysanthemates, sub-stantially rich in (+) -trans-alkyl chrysanthemats.

18th December 1981

11. 343/Bom/81 Walchandnagar Industries Limited, Caneminger.

22nd December 1981

12. 344/Bom/81 Hoechst Pharmaceuticals Limited. A process for the preparation of novel chemotherapeutic bisamidine derivatives of substituted phenanthridines and pharmaceutically acceptable salts thereof.

23rd December 1981

345/Bom/81 Puran R. Mehta. An improved insulator.
 346/Bom/81 Puran R. Mehta. An improved insulator and strains hardware system for termination of 11 KV power lines.

- 15. 347/Bom/81 The Textile & Allied Industries Organisation. High production roller grinning machine, in particular one with seed cotton reclaimer.
- 16. 348/Bom/81 Dr. Yogindra Jayendralal Vasavuda. Kitchen appliance for simultaneous but separate boiling of milk and feeding bottles for infants over a common heat source.

24th December 1981

- 17. 349/Bom/81 Masumali Jafferali Zaveri Multiple grlp disc mechanism and method of producing it.
- 350/Bom/81 Masumali Jafferali Zaveri, A lift jack for automobiles.
- 351/Bom/81 Haridas Jagannath Patil, Non-touching self wetting brush.

28th December 1981

- 20. 352/Bom/81 Priya Ranjan Sarkar. Improvements in combination lock.
- 21. 353/Bom/81 Standard Products (India). Spray nozzles.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-2.

11th January 1982

- (1) 5/Mas/82 T. Krishnan. U.H.F. Cylindrical Paraboloid Antenna System
- (2) 6/Mas/82 K. K. V. Daniel. A Washing Machine.

18th January 1982

- (1) 7/Mas/82 M. A. Kamarudin. Improved Flushing Cistermn.
- (2) 8/MAS/82 T. A. P. Vijayan. A self generating electric motor with two stator windings on magnetically isolated leaves, the lower one supplying the rotor electromagnetism, the upper supplying induced electricity for running the motor.

20th January 1982

- (3) 9/Mas/82 Dr. R. Balasubramanian, Solar Fnergy Gathering Device.
- (4) 10/Mas/82 K. Narayanaperumal. A Plough Tiller Blade.

21st January 1982

(5) 11/Mas/82 L. G. Rao. Improvements in or relating to building cements.

23rd January 1982

- (6) 12/Mas/82 A. J. Stephen. A device for eliminating electric shock and for protecting an electric circuit against faults.
- (7) 13/May/82 A. J. Stephen. A device for eliminating electric shock and for protecting an electric circuit against faults.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs 2/- (postage extra if sent out of India). Requisition for the supply of age extra if sent out of India) Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below augusts and property specification and manufacturing. ed below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs 4/-

PROCESS FOR THE PREPARATION OF PYRIDO/1, 2-a/PYRIMIDINE DERIVATIVES

Applicants CHINOIN GYOGYSZER ES VEGYESZETI TER MEKEK GYARA RT, OF HUNGARY OF TO-UTCA, 1-5 BUDAPEST IV, HUNGARY

Inventors DR JOZSEF KNOLL, DR ZOLTAN MES ZAROS, DR ISTVAN HERMECZ, FERENO FULOP, DR GABOR BERNATH, DR SANDOR VIRAG, DR GABOR NAGY & DR PETER SZENTMIKLOSI

Application No 899/Cal/78, filed August 16, 1978

Appropriate offic, for opposition proceedings Patents Rules, 1972) Patent Office, Calcutta (Rule

21 Claims

Process for the preparation of compounds of the Formula

of the accompanying drawings and salts and quaternary salts thereof wherein

R is hydrogen, halogen, lower alkyl, nitro, hydroxy amine, lower alkoxy, carboxy or a delivative of the carboxy gloup,

R1 stands for hydrogen, halogen or lower alkyl,

R2 stands for an alkyl group having 1 to 16 carbon atoms,

R3 is an alkyl group having 1 to 16 carbon atoms, a C 7-12

aralkyl group optionally halogeno substituted in the aromatic ring, or a cycloalkyl alkyl group having 6 to 12 carbon

R4 represents a single election pair, a hydrogen atom or a lower alkyl group,

the dotted lines represent optional further bonds

with the proviso that if all the dotted lines are further bonds.

R' and R' we methyl and R' is hydrogen then R is other than hydrogen or 7 methyl, and with the further proviso that if all the dotted lines are further double bon is, R' is methyl, R' is ethyl and R' is hydrogen, then R is other than hydrogen of 7-biomine and with the further proviso that if all the dotted lines are further bonds R' is methyl R' is ethyl and

R is 6-methyl, then R is other than 8-methyl,

which comprises reacting a 2-aminopyridine of the formula

of an acid addition salt thereof (wherein R and R1 have the same meaning as stated above) in the presence of mixture of phosphorous oxychloride and polyphosphorous acid with a beta-ovo-ester of the Formula III

$$R^2$$
 $C = 0$
 $CH - R^3$
 $COOR^5$

(wherein R and R have the same meaning as stated above and R' is lower alkyl and thereafter, if necessary, reducing by known methods the compound of the Formula IV

$$R^1 - R^2$$
 $R = R^3$

thus obtained (wherein R1, R2, R2 and R are as stated above) to form a compound of the Formula I

wherein R, R^{τ} , R^{z} and R have above given meanings, and when desired, converting a compound of the formula I into its salt or quarternary salt

Comp Specn 45 pages Drg 1 sheet

CLASS 123

149630

Int C1 C05f 9/04, 13/00

IMPROVEMENTS IN OR RELATING TO THE PRODUCTION OF COMPOST FROM WASTE MATERIALS

Applicant & Invenior ALOK SANYAI, OF 8 1, BADUR BAGAN LANE, CAI CUTTA 700 009 WEST BENGAL, INDIA

Application No 1290/Cal/78, filed December 1 1978

Appropriate office for opposition proceedings Patents Rules, 1972) Patent Office, Calcutta (Rule 4

18 Claims

An improved device for making compost from decomposable waste materials characterised by having a base the surface of which is made of impervious semi-pervious or pervious materials such as herein described having multiplicity of

channels and holes of any suitable size and shape running therethrough for aeration, draining out and evaporation of excess water in the composting materials, an arrangement of a plurality of stacks or piles of waste materials, and at least one set of perforated inserts or frame channel introduced either transversely or longitudinally through the said stack(s) of waste materials for removing any obstruction and leaving sufficient space for aeration and turning of piles.

Comp. Speen. 17 pages.

Drg. 1 sheet.

CLASS: 32F 3C.

149631.

Int. Cl.-C07 C 39/00.

Title—AN IMPROVED PROCESS FOR THE PREPARATION OF PHENOLIC COMPOUNDS.

Applicant: GHARDA CHEMICALS PRIVATE LIMIT-FD., OF 48 HILL ROAD, BANDRA, BOMBAY-400 050. MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor: KEKI HORMUSJI GHARDA

Application No. 54/BOM/1979 Filed on Feb. 23, 1979.

Complete specification filed on Jan 21, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

4 Claims

An improved process for the pregaration of a phenolic compound of the formula Ar(OH)m, wherein Ar is 1-(3, 5-dimethyl) phenyl-or 1-(4-methyl) phenyl-when m is 1 or 4, 4-biphenylene-di-when m is 2 which comprises reaction of a compound of the formula Ar (SO⁸ Na)m, wherein Ar and m are as defined above with an alkali such as herein described at a temperature between 250°C to 350°C in an inert atmosphere to produce a compound of the formula Ar(ONa)m, wherein Ar and m are as defined above followed by recovery of the compound of the said formula Ar (OH)m from the compound of the said formula.

Ar(ONa) m in a known manner such as herein described characterised in that the sald reaction is carried out in the presence of water at a temperature between 250°C to 400°C.

Prov. Specn.—6 pages

Drg.—Nil

Comp. Speen.-7 pages

Drg.—Nıl

Int. class 97H

149632.

Int. cl. H05b 3/08.

A FORK TYPE ELECTRIC HEATER FOR HEATING DIES IN FORGING INDUSTRY

Applicant: TATA ENGINEERING & LOCOMOTIVE COMPANY LIMITED BOMBAY HOUSE 24 HOMI MODY STREET FORT, BOMBAY-400 023 MAHARASHTRA, INDIA

Inventors: 1. HARI OM PRAKASH SRIVASTAVA 2. LALITESHWAR PRASAD KARN

Application No. 147/Bom/79 Filed on May 24, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

8 Claims

1 a fork type electric heater for heating dies in lorging industry comprising a pair of forks each being rigidly mounted on a trolley and having a plurality of heating elements provided in the inner side thereof and a pair of control panels each being mounted on each said fork and being connected to the heating elements of each said fork.

Comp Speen 7 pages drawing 3 sheets.

CLASS: 32-F2b,

149633

Int. Cl. C07d 57/00.

A PROCESS FOR PREPARING NOVEL PHARMACLO-GICALLY ACTIVE PYRIMIDO (2, 1-a) ISOQUINOLIN-4-ONE DERIVATIVES.

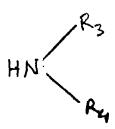
Applicant: HOECHST PHARMACEUTICALS LIMITED, OF HOECHST HOUSE, NARIMAN POINT, 193, BACKBAY RECLAMATION. BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventors: (1) DR. BANSILAL (2) ADOLF D'SA, (3) DR. ALIHUSSEIN NOMANBITAL DOHADWALLA, (4) DR. NANDKUMAR KESHAV DADKAR, (5) DR. NOEL JOHN DE SOUZA AND (6) DR. HORST DORNAUER.

Application No. 271/Bom/79 filed Sept. 29, 1979.

Complete specification after provisional left on Sept. 29, 1980

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch,



F16 13

7 Claims

A process for preparing novel pharmacologically pyrimido (2, 1-a) isoquinolin-4-one derivatives of the formula I shown in the drawings accompanying the provisional specification, in which each of R¹ and R³ represents hydrogen, hydroxy, lower alkoxy, acyloxy or halogen; R¹ and R² when in adjacent positions and taken together stand for alkylendedioxy such as methylendioxy or cthylendioxy, each of R³ and R^{*} represents hydrogen, lower alkoxy, amino, olkylamino, dialkylamino, acylamino, alkyl, cycloalkyl, dialkylaminonlkyl, aralkyl heterocyclically substituted alkyl such as herein described; R' and R' when taken together with the nitrogen atom to which they are bound form an optionally substituted nitrogen heterocycle possibly containing a further nitrogen or oxygen atom such as herein described; R^o represents hydrogen, C₁-C₃ alkyl, aralkyl and aryl; and the acid addition salts thereof which process comprises reacting a β -aryl ethyl uneaderivative of the formula II shown in the drawings accompanying the provisional specification, wherein R^1 and R^2 have the aforesaid meanings with a substituted malonic acid of the tormula R5CH(COOH)..., wherem Ra has the meanings defined above in the presence of an inorganic acid halide such as phosphorous oxychloride, treating the resulting compound of the formula III shown in the drawings accompanying the provisional specification, wherein R¹, R² and R³ have the aforesaid meanings and X stands for a halogen atom such as chloring atom with an amine of the formula shown in Fig. 13 of the drawings accompanying the provisional specification, wherein R' and R' are as defined above, separating and purifying the resulting product in a known manner such as herein described and, if desired, converting the product into its acid addition salt by treatment with the desired acid in a known manner

Provisional specification: 11 pages. Drawing sheets-2

Complete specification: 12 pages, no drawing

CLASS: 173B 149634

Int. Cl. B05b 15/02.

A SPRINKLER

Applicant & Inventor: MRS. PRABHA SRIDHAR, NO. 3, PINJALA SUBRAMANIA IYER STREET, T. NAGAR, MADRAS-600 017, TAMIL NADU.

Application No. 145/Mas/80 filed August 4, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A sprinkler comprising a housing provided with a rose, the housing for connection to a source of water, characterised by a first member disposed within the housing and rigidly attached thereto; a second member movably disposed within the housing, beneath the first member, but just above the perforations in the rose; a flexible member provided laterally around the first and second members to form a chamber hermetically sealed from the interior of the housing, the said chamber, however, communicating with atmosphere through at least one duct provided therefor; a plurality of pins provided for the base of the second member, said pins being aligned with the said perforations, such that when no water

from the source enters the housing the pins, along with the second member, descent downwardly, under gravity, to enter the perforations, but whenever water from the source enters the housing, it exerts a thrust on the base of the second member to raise it upwardly and thus draw the pins out of the perforations, to permit free flow of water therethrough.

(Comp-8 pages;

Draw.-1 sheet)

 $CLASS: 108C_3$.

149635.

Int Cl. C21b 13/10.

PROCESS FOR THE PRODUCTION OF STEEL FROM METAL SPONGE USING GAS PLASMA AS THE ENFRGY SOURCE.

Applicants: FRIED, KRUPP GESELLSCHAFT MIT BE-SCHRANKTER HAFTUNG, OF ALTENDORFER STRASSE 103 FSSEN, WEST GERMANY.

Inventors: HEJNRICH-OTTO ROSSNER AND DR. HENRI FERNAND SEELIG.

Application No. 315/Cal/78, filed March 23, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process of producing steel from metal sponge using gas plasma in a melting vessel, in which the metal sponge is supplied to the zone of action of a plasma burner by pipes or tubes, which are disposed vertically or inclined to the horizontal or through nozzles, characterised in that the metal spongs supplied to the melting vessel per unit time is melted directly by plasma, no basic or acid materials are added and the slag resulting from the gangue of a metal bath is continuously drawn off.

Comp. Specn. 8 pages.

Drg, 1 sheet,

CLASS: 48D1& ..

149636.

Int. Cl. H02g 1/02.

GAS INSULATED TRANSMISSION LINES.

Applicanty: WESTINGHOUSE ELECTRIC CORPORATION, OF WFSTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors: PHILIP CLARENCE BOLIN, ROBERT JOSEPH LAPEN AND ALAN HOWARD COOKSON.

Application No. 569/Cal/78 filed May 25, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A gas insulated transmission line comprising an clongated, cylindrical outer sheath, an elongated inner conductor disposed within said outer sheath, an insulating gas disposed within said outer sheath and electrically insulating said inner conductor from said outer sheath, an insulating spacer having a longitudinal width disposed within said outer sheath and insulatably supporting said inner conductor within said outer sheath, and spacer mount for mounting said spacer within said outer sheath comprising an annular first member having a longitudinally extending section and a radially-inwardly extending nub, and an annular section member having a radially-inwardly extending nub, said second member being secured to said first member at said first member longitudinal section, and first and second member nubs being spaced apart a distance substantially the same as said spacer width said first nub, said second member nub, and said first member longitudinal section forming an annular space therebetween, said spacer being disposed within said annular space.

Comp. Specn. 10 pages.

Drg. 1 sheet.

CLASS: 206E.

149637.

Int. Cl. H011 1/00.

A SEMICONDUCTIVE FIELD SENSOR DEVICE.

Applicants: INTERNATIONAL BUSINESS MACHINES CORPORATION, OF ARMONK, NEW YORK 10504 UNITED STATES OF AMERICA,

Inventor: ALBERT WATSON VINAL.

Application No. 420/Del/78, filed June 7, 1978.

Convention date January 6, 1978/(00569/78) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

18 Claims

A semiconductive, channel conduction, field sensor device having a substrate of semiconductive material, a source region and at least two separated drain regions in the substrate, and a channel of conductive material in the substrate connecting the source and the drains, the channel having a filamentary form and having a vinhall width as herein defined to channel width ratio in the vicinity of the source that is greater than o and less than .98.

Comp. Specn. 64 pages.

Drgs. 8 sheets,

CLASS 24B

149638.

Int. Cl. B61h 5/00.

A RAILWAY DISC BRAKE ASSEMBLY

Applicant: LUCAS INDUSTRIES LIMITED, GREAT KING STRFET, BIRMINGHAM 19, ENGLAND.

Inventor: PETER WILLIAM BROWN

Application No. 227/Mas/79 filed December 11, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

9 Claims

A railway disc brake assembly comprising a rotor, and a braking disc including a plurality of arcuate braking ring elements each accured to a face of the rotor by fasteners arranged to permit thermal movement of the element relative to the rotor, wherein each element is positioned on the rotor by a pair of locating devices on opposite sides of an axial plane bisecting the element, one device being arranged at a first location to retain the element against translatory movement relative to the rotor at the first location, and the other device being arranged at a substantial distance from the first location, to guide the element for movement in the direction of the first location whereby thermal expansion of the element between the locating devices is unrestrained thereby.

(Comp. 12 pages; Drwgs.-2 sheets)

CLASS 140B,

149639.

Int. Cl. C11b 9/02.

A PROCESS FOR THE RECOVERY OF SANDAL OIL OR THE LIKE ESSENTIAL OILS FROM THE DISTILLATE WASTE WATER.

Applicant & Inventor: SUBRAHMANIA CHELLAPPA PILLAI, OF NO. 5, 19TH CROSS ROAD, MALLESWARAM WEST, BANGALORE-560 055, KARNATAKA.

Application No. 45/Mas/80 filed March 6, 1980.

Complete specification left October 13, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A process for the recovery of essential oils such as herein defined, from distillate waste water obtained after the extractive steam distillation of plant material containing the said essential oils, the said process comprising the steps of recycling distillate waste water into a distillation still containing a bed of spent or exhausted plant material; allowing the said distillate waste water to percolate through layers of sa'd spent or exhausted plant material, subjecting the said plant material to steam distillation followed by separating the essential oil from the distillate by known means.

(Prov.- 5 pages; Comp. -14 pages)

CLASS: 63I.

149640.

Int. Cl. H02k 37/00.

FLECTRIC ROTARY STEPPING MOTOR.

Applicants: GIRARD-PERREGAUX S.A. OF PLACE CIRARDET 1, 2301 LA CHAUX-DE-FONDS, CANTON OF NEUENBURG, SWITZERLAND.

Inventor: FRANCIS BESSON.

Application No. 1719/Cal/77 filed December 12, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

An electric rotary stepping motor for watch movements, comprising a rotor, a one-piece coil support of a non-magnetic material, substantially cylindrical and disposed coaxially with said rotor, two compact coils having flat turns borne by said coil support, and a field-closing york made of a low-remainence material, disposed coaxially with said coil support and provided with magnetic rotor-blocking means, wherein said coil support is provided with two diametrically opposed arms, said coils being self-supporting elements formed of turns which are joined to one another, each of said elements being disposed on one of said arms and adhesively secured thereto.

Comp. Speen, 18 pages.

Drgs. 3 sheets.

CLASS: 201C.

149641.

Int. Cl. C02b 1/00.

A METHOD OF TREATING POOL WATER.

Applicant: SYLVIA GOETZ, OF 1317 BOSTON STREET, ALTADENA, CALIFORNIA 91001, UNITED STATES OF AMERICA.

Inventor: DOROTHY G. FRANKS.

Application No. 528/Cal/78 filed May 16, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A method of treating pool water for rendering it more hygenic which includes circulating the water periodically from a pool through a filter under pump pressure to remove any suspended solids present in the pool water, and returning the filtered pool water to the pool and comprising the steps of contacting the filtered pool water with a stationary bed of porous biocatalyst composition by repetitive circulation of the pool water through the porous bed, the biocatalyst composition consisting essentially of a reaction product of a finely divided, water-insoluble mixture of a basic silver compound, carbon or silica particles, and a basic metal oxide or hydroxide, the biocatalyst composition being responsive to repeated pool water contact to generate a purifying residual microbicidal condition in the pool water; maintaining the pool water, the porous bed, the water circulated to the porous bed, and the water circulated away from the porous bed at a pH above 7 and at a temperature between 70°F and 98°F; returning the conditioned water with the biocatalyst composition to maintain said residual microbicidal condition.

Comp. Speen, 26 pages.

Drg. 1 sheet.

CLASS: 116C.

149642.

Int. Cl. B63b 27/22, B65g 29/00.

A HELICAL CONVEYOR.

Applicants: AMMERAAL NEDERLAND B. V., OF INDUSTRIEWEG 16, WORMERVEFR, THE NETHERLANDS.

Inventor: THOMAS CORNELIS MARIA AMMERAAL.

Application No. 886/Cal/78 filed August 11, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

27 Claims

A helical conveyor for the transport along a helical stretch, with a substantially vertical central axis and equipped with an endless conveyor belt, the upper part of this conveyor belt following a helical path and ending at the lower end and at the upper end in a substantially horizontal generating line, characterized in that a feed or discharge conveyor, which is displaceable with respect to the helical conveyor, joins the upper part of the conveyor belt of the helical conveyor.

. Comp. Specn. 18 pages.

Drgs. 4 sheets.

CLASS: 32E, 55D.

149643,

Int. Cl. B01j 13/00; A01n 9/00; C08g 41/00.

PROCESS FOR THE MANUFACTURE OF PRESSURF-RESISTANT POLYURETHANE-POLYUREA PARTICLES.

Applicants: HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT/MAIN 80, FFDERAL REPUBLIC OF GERMANY.

Inventors: RUDOLF HEINRICH, HFINZ FRENSCH & KONRAD ALBRFCHT.

Application No. 1330/Cal/78 filed December 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

Process for the manufacture of pressure-resistant polyure-thane-polyurea particles with textured internal mass from a liquid phase immiscible with water and containing organic solvents, isocyanate prepolymers and active substances or mixtures of active substances, by dispersion in an aqueous phase at temperatures of from 0°C to 95°C, which comprises dispersing a liquid organic phase containing as isocyanate prepolymer a reaction product of a stoichiometric excess of an aliphatic, aromatic, cycloaliphatic, or araliphatic di-or polyisocyanate with a di- or polyol, the reaction product having a mean molecular weight in the range of from about 300 to 10.000, and an alkyl and/or alkoxyalkyl acetate of the formala shown in the accompanying drawings, in which m is zero, 1 to 2, preferably zero or 1, n is 1 to 4, preferably 2 and R is (C₁-C₅) alkyl in an aqueous phase containing a protective colloid and optionally a surface-active agent.

Comp. Specn. 21 pages.

Drg. 1 sheet,

CLASS: 195G,

149644.

Int. Cl. G05d 7/00.

IMPROVEMENTS IN OR RELATING TO DOUBLE BEAT VALVE TYPE FLOW CONTROLLER.

Applicant & Inventor: DR. SIDDHARTHA RAY, OF 37/2, GARIAHATA ROAD, CALCUTTA-700 031. WEST BENGAL, INDIA.

Application No. 45/Cal/79 filed January 16, 1979:

Complete specification left January 4, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A double beat valve type flow controller characterised in that the fulcrum for the lever on the float, which lever connects the common spindle of the double valve, is mounted on the top wall of the valve body.

Prov. 4 pages; Comp. 5 pages.

Dig. 1 sheet.

CLASS: 101E.

149645.

Int. Cl. G01f 25/00.

A PICK UP DEVICE FOR THE MEASUREMENT OF FLUID FLOW VELOCITIES.

Applicants: BHARAT HEAVY ELECTRICALS, OF 18-20, KASTURBA GANDHI MARG, NEW DELHI, INDIA.

Inventor: KALE SIVASANKARA RAO.

Application No. 401/Del/77 filed November 21, 1977

Complete Specification left February 9, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Delhi,

8 Claims

Pick up device for the measurement of fluid flow velocity which comprises a means for forming a surface capable of being heated by a source of heat, and means for monitoring the temperature or variation in the temperatures of the said surface while in contact with moving fluid whose velocity pattern is to be studied respectively for varying or constant source of heat, for obtaining necessary data for use in calculating the fluid flow velocities using calibrated charts.

Prov. Specn. 8 pages.

Drgs. 2 sheets.

Comp. Specn. 11 pages.

Drgs. 3 sheets.

CLASS: 1301. .

149646.

Inf. Cl. C22b 3/00; 23/00.

A PROCESS FOR RECOVERING NICKEL VALVES AND COBALT VALVES FROM A SOLUTION.

Applicants: SHERRITT GORDON MINES LIMITED, AT 2800 COMMERCE COURT WEST, TORONTO, ONTARIO, CANADA.

Inventors: VERNER BLAKEY SEFTON AND RUSSELL PETER KOFLUK.

Application No. 135/Cal/78 filed February 6, 1978.

Convention date February 25, 1977/(272687/77) CANADA.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

A process for recovering nickel values and cobalt values from a feed solution containing dissolved nickel and cobaltous cobalt, comprising adjusting the pH of the solution if necessary to a valve between 3 and 6, and then contacting the solution with a chelating ion exchange resin having aminocarboxylic acid functional groups to selectively load nickel onto the resin to produce a nickel loaded resin and a nickel depleted cobalt containing solution, adjusting the pH of the nickel depleted cobalt containing solution to a value of between 7 and 10, and then contacting the adjusted solution with further ion exchange resin to produce a cobaltous cobalt loaded resin, and stripping the nickel loaded resin to produce a nickel containing solution which is substantially free from cobalt, and stripping the cobalt loaded resin to produce a cobalt containing solution substantially free from nickel.

Comp. Specn. 19 pages.

Drgs. 3 sheets.

CLASS: 31C.

149647.

Int. Cl. H01c 7/00.

THYRISTORS.

Applicants: WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors: YU CHANG KAO AND LAWRENCE STEPHEN SAXON.

Application No. 139/Cal/78 filed February 7, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A thyristor having a first region, comprising an emitter, on one surface, the first region having an inner boundary having portions which lie on the perimeter of a regular polygon area, said inner boundary being formed by plurality of lines which are exclusively straight;

a second region comprising a gate disposed adjacent the first region and forming a PN junction with first region, said second region disposed on said first region opposite said one surface and extending to said one surface within the area defined by the polygon;

emitter shunts disposed in said first region, at least a pottion of the emitter shunts being disposed in a first series of emitter shunts which form rows, which lows are exclusively straight, said portion of the exclusively straight rows of said first series of rows of emitter shunts being spaced from and parallel to the exclusively straight lines forming said inner boundary, said first row of emitter shunts being spaced apart and having a spacing from one another?

a second series of emitter shunts being spaced apart from one another, the spacing of the second series, from any one shunt to another thereof, being greater than the spacing of the first series from any one shunt to another thereof;

a third region disposed on the side of said second region opposite said first region;

said third region forming a PN junction with said second region; and

a fourth region disposed on the side of said third region opposite said second region;

said fourth region forming a PN junction with said third region.

Comp. Specn. 14 pages.

Diga. 6 sheets.

CLASS: 9F&D and 33H.

149648.

Int. Cl. C21e 1/08.

CAST IRON MODIFIER AND METHOD FOR THE PRODUCTION OF CAST IRON CASTING USING THE SAID CAST IRON MODIFIER,

Applicants: TULSKY PROEKTNO-KONSTRUKTOR-SKY TEKHNOLOGICHESKY INSTITUT MASHINOST-ROENIA, OF TULA ULITSA 9 MAYA, 66, USSR.

Inventors: LEV VLADIMIROVICH PEREGUDOV, MIKHAIL MIKHAILOVICH MALASHIN, ANATOLY SERGEEVICH NALETOV, JURY YAKOVLEVICH NENAKHOV & EVGENY ALEXEEVICH SOKOLOV.

Application No. 470 'Cal/78 filed April 29, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A cast iron modifier containing in % by weight:

Silicon	from 30 to 40
rare-earth elements	from 2 to 8
calcium	from 10 to 20
eluminium	from 15 to 30
carbon	from 10 to 30
sulphur	from 0.1 to 0.3
iron	the balance.
Comp. Specn. 13 pages.	Drg. Nil.

PATENTS SEALED

147683 147897 147935 147978 148053 148182 148452 148540 148555 148567 148581 148604 148623 148624 148677 148678 148680 148720 148747 148750 148775 148776 148777 148778 148779 148780 148782

COMMERCIAL WORKING OF PATENTED INVENTION

CHEMICAL LIST NO. 1

The following Patents in the field of chemical Industry are not being—comercially worked in Indua as admitted by the Patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of calendar year, 1980, generally as account of want of requests for licences to work the Patented inventions.

Persons who are interested to work the said patents commercially may contact the Patentees for the grant of a Licence for the. purpose.

St. No.	Patent No.	Date of Patent	Name and Address of Patentees	Title of the invention
1	2	3	4	5
1.	106238	18-07-1966	MITSUBISHI RAYON CO. LTD., 8, Kyo- bashi 2-chome, chuo-ku, Tokyo, Japan.	Polynosic fibres and a process producing the same.
2.	107119	31-01-1967	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Mis- souri 63166, U.S.A.	α-chloroacetamides and phyto-toxic compositions,
3.	109963	28-03-1967	CHEMICAL SEPARATIONS CORPORATION, Bus Terminal Road, Oak Ridge, Tennessee, U.S.A.	Treating crude mineral solutions.
4·	109964	28-03-1967	Do.	Continuous cyclic process for the pick- ling of metal for regenerating spent pickle liquors and for regenerating an agent employed to regenerate said spent pickle liquor.

1 	2	3	4	5
5.	110430	28-04-1967	(1) COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESFARCH ORGANISATION, 314, Albert Street, East Melbourne, in the state of Victoria, Commonwealth of Aus- tralia.	Production of anosovite from titani- ferrous minerals.
			(ii) WESTERN TITANIUM N. L., 100 Collins Street, Melbourne, in the state of Victoria, Commonwealth of Australia.	
6.	113286	22-11-1967	MONSANTO COMPANY, 800 North Lindebergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Forming objects from a low viscosity melr.
7.	114741	26-05-1966	Do.	Novel sulfonamide compounds and production thereof.
8.	115300	04-04-1968	Do.	Production of carboxylic acids or esters.
9,	115369	12-06-1967	HALDOR FREDERIK AXEL TOPSOE, Frydenlunds vej, Trorod Prd., Vedback, Denmark.	Nickel iron or cobalt containing catalysts.
10.	115800	07-05-1968	SNAMPROGETTI S. P. A., 16, Corso, Venezia, Milan, Italy.	Production of urea.
11.	115973	18-05-1968	ELKEM-SPIGERVERKET AS., Middle-thunsgaten 27, Oslo 3, Norway.	Production of ferrovanadium directly from Slag obtained from vanedium-containing pig iron.
12.	116395	23-06-1967	AKTEISESKABET DANSK SVOVLO- YREOG SUPERPHOSPHAT FAB- RIK, 15, Amaliegade, Copenhagen, Denmark.	Fertilizer production.
13. •	116552	28-06-1968	SNAMPROGETTI S. P. A., 16, Corso Venezia, Milan, Italy.	Production of urea.
14.	116968	27-07-1968	Do.	Production of urea having low carbamate content.
15.	119801	11-02-1969	Do.	Catalytic Hydrogenation of Hydrocarbons for the production of high viscosity index lubricating oils.
16.	119830	13-02-1969	SUMITOMO CHEMICAL CO. LTD., No. 15, Kitahame 5-chome Higashiku, Osaka, Japan	New reactive yellow monoazo dyes and their manufacture and use.
17.	120369	17-03-1969	MONOSANTO COMPANY, 800, North Lindbergh Boulevard, St. Louis, Mis- souri, 63166, U.S.A.	Inhibiting premature vulcanization of diene rubbers and diene rubber vulcanizable compositions.
18.	121974	24-06-1969	SNAMPROGETTI SPA, 16, Corso Venezia, Mılan, İtaly.	Fibers containing enzymes, process for their preparation and their use in enzy- matic reactions.
19.	122989	03-09-1968	CARDING SPECIALLISTS (CANADA) LIMITED, Suite 1315, 44 King Street West, Torento 1, Ontario, Canada.	Processing of slivers in textile.
20,	123569	14-10-1969	 (i) KUMIAI CHEMICAL IND. CO. LTD., No. 4-26 Ikenohata 1-chome Taitoku, Tokyo, Japan. (ii) MITSUI TOATSU CHEMICAL INC. No. 2-5, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, Japan. 	Mixed herbicide composition.
21.	123665	22-10-1969	GULF RESEARCH & DEVELOPMENT CO. P. O. Box 2038, Pittisburgh, Pen- nsylvania, U.S.A.	Method of rendering corn seed resistant to pre-emergence herbicides.
27.	123808	30-10-1969	MONSANTO COMPANY, 800, Lindbergh Boulevard, St. Louis Missouri-63166, U.S.A.	An agricultural composition for modi- fying the sequential development of plants comprising nitrilo compounds.
23.	123933	07-11-1969	MONINKLIJKE NEDFRLANDSCHF GIST SPIRITUSFABRIEK N. V. Wateringseweg, Delft, The Nether- lands.	An active dried baker's yeast and a pro- cess of preparing the same.
24.	124545	- 22-12-1969	SNAMPROGETTI S. R. A., 16 Corso Venezia, Milan, Italy.	Production of urea.
25.	124558	23-12-1969	BENILITE CORPORATION OF AMERICA, 233 Broadway, New York, New York-10001, U.S.A.	Beneficiation of Ilmnite.

1	2	3	4	5
26.	124663	05-04-1968	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Mis- souri 63166, U.S.A.	Cutalyst composition for use in the transformation of reactants and process for manufacturing same.
27.	125675	02-01-1970	LANKRO CHEMICALS LTD., Emerson House, Albert Street, Eccles, Manchester M 30 01J, Fngland.	and higher dialkyltin monohydric alt- phatic saturated alcohol esters of thio- malic and thiolactic acids process for preparing the same and polyvinyl chloride resin composition containing such reaction products.
28.	124676	02-01-1970	Do.	Reaction products of dioctyltin oxide and dioctyltin monohydric aliphatic saturated alcohol thioglycolate esters process for preparing the same and polyvinyl chloride resin compositions containing such reaction products.
29.	125177	06-02-1970	ISHIHARA SANGYO KAISHA LTD., No. 11-1, Edoborikami-dori, 1-chome, Nishi-ku, Osaka, Japan.	
30.	125988	30-03-1970	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Mis- souri 63166, U.S.A.	Salt of p-nitro benzene sulfonylurea and herbicidal compositions containing the same.
31.	125991	30-03-1970	SNAMPROGETTI S. P. A. 16 Corso Vene- zia, Milan, Italy.	Purification of urea solutions.
32.	126095	07-04-1970	NIPPON KOKAN KABUSHIKI KAJ- SHA, 1-3, 1-chome, Otemachi, Chiyoda- ku, Tokyo, Japan.	Process of manufacturing low and medium carbon ferro alloy.
33.	126193	14-04-1970	DEGUSSA, 9. Weissfruenstrasse, Frankfurt (Main) Federal Republic of Germany.	Process for the regeneration of used catalyst in the manufacture of hydrogen peroxide by the anthraquin n process an apparatus therefor and hydrogen peroxide manufactured applying this process of regeneration.
34.	126402	28-04-1970	HOECHST AG. 45, Brunigstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for dyeing mixtures of cellulose and cellulose-2, 1/2-acetate fibers or of cellulose and cellulose triacetate fibres or of cellulose and polyacrylonitrile fibers.
35.	126476	02-05-1970	THERMAL TRANSFER CORPORA- TION, 150 Seco Road, Monroeville, Pennsylvania 15146, U.S.A.	Metallic flue recuperators.
36.	126800	25-05-1970	SNAMPROGETTIN S. P. A., 16 Corse Venezia, Milan, Italy.	Process for the product on pellets of urea having a low biuret content.
37.	126866	29-05-1970	HERBERTS GESELLSCHAFT MIT BE- SCHRENKTER HAFTUNG, 56, Lou- ppertal 2, Christbusch 25, F. R. Ger- many.	5-membered imide rings.
38.	126902	02-06-1970	HOECHST AG., 45 Bruningstrasse, Frankfurt/Main, F. R. Germany.	Manufacture of water-soluble monoazo dyestuffs process dyeing printing or colouring textile materials using said dyestuffs and textile materials so dyed coloured or printed.
39.	126971	06-06-1970	IMPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank, London SW1, England.	Polymeric shaped articles and preparation thereof.
40.	127104	16-06-1970	ETHICON INC., Somerville, New Jersey, U.S.A.	Polypropylene non-absorbable suture.
41.	128337	08-09-1970	BENBSON, FIELD AND EPES, FIRM, 640, Spruce Lane, Berwyn, Commonwealth of Pennsylvania, U.S.A.	Method for the removal of CO ₂ and H ₂ S from gas mixtures.
42.	128576	24-09-1970	UOP CO. Ten UOP Plaza-Algongliin 9 Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Continuous reforming regeneration process.
43.	128755	12-10-1970	IMIPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank, London SW1, England.	Manufacture of 1.1.1 tri-chlorethane.
4 4 .	128799	13-10-1970	HOECHST AG, 45, Bruningstrasse, Frankfurt/Main F.R., Germany.	Process for the preparing water-soluble anthraquinone dyestuffs.
45.	128907	20-10-1970	SNAMPROGETTI S. P. A., 16 Coro Venezia, Milan, Italy.	•
46.	129095	03-11-1970	HOECHST AG., 6230 Frankfurt/Main 80, F.R. Germany.	Preparing water soluble reactive xanthenium dyestuffs.

1		3	4	5
47.	129113	04-11-1970	NATIONAL RESEARCH DEVELOP- MENT CORPORATION, Kingsgate H House, 66/74 Victoria Street, London SWIE, 65L, England.	Preparation of mixs. containing fibrous substances.
48.	129127	06-11-1970	EXXON RESEARCH AND ENGI- NEERING COMPANY, Linden, New Jersey, U.S.A.	Process for the conversion of gas mixtures containing carbon mo noxide and steam to hydrogen and carbon dioxide.
49.	129139	07-11-1970	Do.	Do.
50.	129263	17-11-1970	SNAMPROGETTI S. P. A., 16 Corso Venezia, Milan, Italy.	Process for treating effluent gases in the ammonia synthesis.
51.	129304	19-11-1970	HOECHST AG., 2630 Frankfurt/Main, 80 F.R. Germany.	Preparation of amino-phenyl alkyl ethers.
52.	129322	20-11-1970	SHELL INTERNATIONALE RESEAR- CH MAATSCHAPPIJ B. V. Cavel can Bylandtlaan 30, The Hague, The Nether- lands.	Process for quenching unstable pyrolysis effluent gases.
53.	, 129349	28-07-1971	HINDUSTAN LEVER LIMITED, Hindustan Lever House,)165/166 Backbay Reclamation, Bombay-400020, India.	Process for preparing a catalyst.
54.	129438	30-11-1970	UOP CO. Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Process for the production of para-xylene and gasoline.
55.	129493	04-12-1970	SHELL INTERNATIONALE RE- SEARCH MAATSCHAPPIJ B. V., Van Bylandtlaan 30, The ague, The Netherlands.	Improved process for the production of a silica-titania-catalyst suitable for use in liquid phase epoxidation olefin with organic hydroperoxides.
56.	129497	04-12-1970	NIPPON KOKAN KABUSHIKI KAI- SHA, 1-3, 1-chome, Otemachi, chiyoda- ku, Tokyo, Japan.	Manufacturing tinned plates having little tendency to smudge.
57.	129518	05-12-1970	SULZER BROTHERS LTD., Wintesthur, Switzerland.	Ammonia synthesis process and plant.
58.	129541	09-12-1970	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U. S. A.	Annealing tower.
59.	129567	11-12-1970	SHELL INTERNATIONALE RE- SEARCH MAATSCHAPPIJ B. V., Cavel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for epoxidizing olefins with hydro- peroxides to produce oxirane com- pounds.
60.	129569	11-12-1970	Do.	A process for producing a substantially sulphur-free gas stream and a hydrogen sulphide-rich gas stream from claus off-gases.
61.	129618	16-12-1970	CASTROL LIMITED, Burmah Castrol House, Marylbone Road, London, N.W. 1, England.	=
62.	129619	16-12-1970	PHONE-POULENC INDUSTRIES, 22, Avenue Montaigne, Paris, France.	Manufacture of rhombohedral anhydrous calcium sulphate II.
63.	129640	17-12-1970	UOP COMPANY, Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinouis, U.S.A.	High octane gasoline production.
64.	129643	17-12-1970	HOECHST, AG., 6230 Frankfurt/Main 80, F.R. Germany.	Manufacture of water soluble monoazo dyestuffs.
65.	129757	28-12-1970	MATSUSHITA ELECTRIC INDUS- TRIAL CO. LTD. 1006, Oaza, Kadama, Kodema-shi, Osaka, Japan.	A method for producing manganese dio- xide electrolytically.
66.	129769	29-12-1970	UOP COMPANY, Ten UOP Pla/a-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Production of a selected aromatic hydrocarbon.
6 7 .	129831	04-01-1971	Do.	C8-alkylaromatic isomerisation process.
68.	129834	04-01-1971		Preparation of amidoalkane-sulfonic acids.
69.	129855	06-01-1971	•	Extraction of tea and preparation of instant tea powder from the extract so obtained.
70.	129870	07-01-1971	WESTINGHOUSE CANADA LIMITED, 285, Sanford Avenue North, Hamilton Ontario, Canada.	Calcium halophosphate 'daylight' pho- sphar for fluorescent lamp.
71.	129961	15-01-1971	MISSUBISHI GAS CHEMICAL CO. INC. 5-2, Marunouchi 2-chome chiuoda-ku, Tokyo, Japan.	Producing a formaldehyde aqueous solution having a low methanol content.

1	2	3	4	- 5
72.	130072	27-01-1971	THE LUBRIZOL CORPORATION, Cleveland, Ohio 44117, U.S.A.	
73.	130088	27-01-1971	SOLVALY LT CIE, 33 Vue du Prince Albert, Brussels-5, Belgium.	Process for the preparation of zieglernatta type catalyst.
74.	130121	01-02-1971	IMPERIAL CHEMICAL INDUSTRIES LTD. Imperial Chemical House, Lon- don S.W1, England.	Treatment of brine.
75.	130125	01-02-1971	HOOKER CHEMICALS CORPORA- TION, Niagara Falls, New York, U'S.A.	Process for the generation of chlorine dioxide chlorine and the production of alkali metal.
76.	130178	04-02-1971	HINDUSTAN LEVER LTD. Hindustan Lever House, 165-166, Backbay Recla- mation, Bombay-400020, India.	freatment of karangja oil.
77.	130238	11-02-1971	Do.	Anti-slaque and anti-calculus dentifrice.
78.	130270	15-02-1971	SNAMPROGFTTI S. P. A., 16 Corso Venezia, Milan, Italy.	Separation of a partially hydrogenated polyamine of aluminium.
79.	130282	16-02-1971	HOECHST AG. 6230 Frankfurt/Main, F.R. Germany.	Process for preparing water-soluble mono- azo dyesiuffs.
80.	130287	16-02-1971	E. I. DU PONT DE NEMOURS & CO. Wilington, Delaware, U.S.A.	Water-in-oil emulsion type blasting.
81.	130367	25-02-1971	HOECHSΓ AG., 6230 Frankfurt/Main, 80, F.R. Germany.	Metal complex compounds of the mono- azo dyestuffs and process for their preparations.
82.	130371	25-02-1971	DEGUSSA, of 9 Weissfranestrasse, Frankfurt (Main) F.R. Germany.	Calcium thioctate.
83.	130489	05-03-1971	HOECHST AG. 6230 Frankfurt/Main 80, F.R. Germany.	Manufacture of water soluble monoazo dyestuffs.
84.	130553	16-03-1971	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U.S.A.	Liquid gas containing tray.
85.	130590	16-03-1971	HOECHST AG., 6230 Frankfurt/Main 80, F.R. Germany,	Manufacture of water insoluble yellow monoazo dyestufis.
86.	130631	18-02-1971	 (i) METALLGESELLSCHAFT AG, 6, 15 ankrurt am Main Reutenweg 14, West Germany. (ii) VEVELNIGTE ALUMINIUMWERKE AG, 53, Bonn Aerichtsweg, 48, West Germany. 	Process of removing hydrogen fluoride.
87.	130690	23-02-1971	HOECHST AG., 6230 Frankfurt/Main 80, F.R. Germany.	Metal-containing azo dyestutts.
88.	130775	29-03-1971	SHIN ETSO CHEMICAL CO. LTD., 4-2, Marunoushi, 1-chome, chiyoda-ku, Tokyo, Japan.	Method for suspension polymerising vinyl chloride.
89.	130800	30-03-1971	SNAMPROGETTI S. P. A., 16, Corso Venezia, Milan, Italy.	Process for production of urea.
90.	130801	30-05-1971	Do.	Production of urea.
91.	130841	05-04-1971	HINDUSTAN LEVER LTD., Hindustan Lever House, 165-166, Backbay Recla- mation, Bombay-400020, India.	Built loundry soap containing disproportionated rosin.
92.	130923	12-04-1970	STAMICARBON N. V., Van ds Maesen- straat, 2, Heorlen, The Netherlands.	Process for increasing the corrosion resistance of austeritic stainless steels.
93.	130993	16-04-1971	IMPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank, London SW 1, England.	Glass reinforced polymer composites.
94.	131044	20-04-1971	GENERAL ELECTRIC CO., 1, River Road, Schenectady, New York, U. S. A.	Process for producing a sintered cobalt rare earth intermetallic product.
95.	131248	05-05-1971	SANKYO CO. LTD., 1-6, 3-chome Ni- hantushi, Hancho, chouku, Tokyo, Japan.	Soil fungicides.
96.	131458	22-05-1971	SNAMPROGETTI S. P. A., 16 Corso Venezia, Milan, Italy.	Process for dehyrating ammonia synthesis gases.
97.	131502	26-05-1971	MITSUBISHI JUKOGYO KABUSHI- KI KAISHA, 5-1, Marunoushi 2- chome, chiyoda-ku, Tokyo, Japan.	Reference samples suitable for use in a method of determining non-destructively a component of a metalic material.
98•	131518	28-05-1971	EKENWERK-GESELLSCHAFT MAXI- MILI ANSHUTTE mbH, Sulzbach Roseberg Hutte, West Germany.	Method and convertor for refining pig iron.
9 9.	131552	31-05-1971	HOECHST A.G., 6230 Frankfurt/Main 80, R.R. Germany.	Process for the manufacture facyl acetic acid aryl amides.

1	2	3	4	5
100.	131564	02-06-1971	USS ENGINEERS AND CONSULTANTS INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Method of making rim-stabilized steel ingots.
101.	131576	03-06-1971	HTHE DOW CHEMICAL COMPANY, Midland, County of Midland, State of Michigan, U.S.A.	Hydration of nitriles to amides using hydrogenous cuprous catalysts.
102.	131670	10-96-1971	SUMITOMO CHEMICAL COMPANY LTD., No. 15, Kitahama, 5-chome, Higashi-ku, Osaka, Japan.	Process for dying fibrous materials with cationic dyes.
103.	131684	11-06-1971	1MPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Mill- bank, London SW1, England.	Non-woven continuous filament materials and process for making them.
104.	131725	15-06-1971	(i) PROF. DR. SE. H. E. HARL-HEINZ IMHAYSEN, Lahr, Hochstr 8, West Germany.	A polymerisation process and a polymerisation reactor for carrying out the process.
			(ii) IMPICO AG., Talacker 42, Zurich, Switzerland.	
105.	131782	18-06-1971	UOP CO., Ten UOP Plaza-Algon quin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Black oil conversion process initial operation procedure.
106.	131810	21-06-1971	Do.	Solvent recovery process.
107.	131913	29-06-1971	METALLGESELLCHAFT AG., 16 Frank- furt Am, REnferweg 14, West Germany.	Process of producing aluminium fluoride.
108.	131939	30-06-1971	HOECHST AG., 6230 Frankfurt/Main 80, F.R. Germany.	Process for preparing water-soluble metal- liferous dis-azo dyestuffs.
109.	132080	24-01-1972	UNINON CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York-10017, U.S.A.	Process for absorbing acid gas impurities.
110.	132267	27-07-1971	JOHNSON & JOHNSON., 510, George S'reet New Brunswick, New Jersey, U.S.A.	Bonded non woven fabrics method of making the some and sunthetic resin binder compositions used therein.
111.	132288	28-07-1981	MONSANTO COMPANY, 800 North Linderbergh Boulevard, St. Louis, Mis- souri 63166, U.S.A.	Isopropylidineamino ethanol selt of p-nitro benzene sulfonyl urea and process for its preparation.
112.	132282	28-07-1971	THE LIBRIZOL CORPORATION, Cleveland, Ohio, 44117, U.S.A.	Thicknened aqueous compositions con- taining acrylamide-alkane-suifonate po- lymers useful as hydraulic fluids.
113.	132309	20-04-1972	HINDUSTAN LEVER LTD., Hindustan Lever House, 165-166, Backbay Recla- mation, Bombay-400020, India.	A process for preparing on instant tea powder.
114.	132454	10-08-1971	E. I. DU PONT DE NEMOURS & CO., Wilmington, Delaware, U.S.A.	Emulsion type blasting agent.
115.	132766	03-09-1971	UOP COMPANY., Ten UOP Plaza-Alganonquin & Mt. Prospects Roads, Des Plaines, Illinois, U.S.A.	Improved hydrocarbon separation process.
116.	132782	04-09-1971	SHELL INTERNATIONALE RESEAR- CH MAATSCHAPPIN B. V., Carel van Bylandtlaan 30, The Hague, The Ne- therlands.	Process for preparing an improved cata- lyst for producing oxirane compounds by expoxidizing olefines with hydro- penoxides.
117.	132798	06 -09- 19 7 1	PHILLIPS PETROLEUM CO., Bartles- ville, State of Oklahama, U.S.A.	Preparation of propylene copolymers.
118.	132825	07-09-1971	HOECHST AG., 6230 Frankfurt/Main 80, F.R. Germany.	Process for the manufacture of white or colour resists under phothalocyanine dyestuffs.
119.	132827	08-08-1971	SOLVAY & CIE., rue de, Prince Albert 33, B-1050 Brussels., Belgium.	Polymerisation of olefins.
120.	132828	08-09-1971	Do.	Polymerisation of olefins.
121.	132854	09 - 09-1971	TOYO ENGINEERING CORPORA- TION, 2-5, 3-chome, Kasumingasoki, chiyoda-ku, Tokyo, Japan.	Manufacturing gaseous mixtures rich in hydrogen.
122.	132878	13-09-1971	UNION CARBIDE CORPORATION, 270 Park Avenue, New York. State of New York 10017, U.S.A.	Separating normal paraftms from admixture with non-normal hydrocarbon.
123.	132908	14-09-1971	J. H. FENNER & CO. LTD., Maffleet, Hull, HV 9 5R England.	A method of bonding a surface of poly- vinyl chloride to a surface of natu- ral rubber or to a surface of a sulp hur modified chloroprene elastomer.
124	132926	16-09-1971	EXXON RESEARCH AND ENGINEER-HOG CO., Londen, New Jersey, U.S.A.	A process for chilling a solution of a ways

1	2	3	4	5
125.	132930	16-09-1971	HOECHST AG., 6230 Frankfurt/Main 8°, F.R. Germany,	Water soluble fibre-reactive disazo- stuffs and their metal complex com- pounds.
1 2 6.	132943	17-09-1971	UOP CO., Ten UOP Plaza-Algonquin & Mt. Prospects Roads, Des Plaines, Illinois, U.S.A.	Process for separating para-xylene from a
127.	133022	23-09-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. The Hague, The Netherlands.	
128.	133066	01-10-1971	BENILITE CORPORATION OF AMERICA, 233 Broadway, New York, New York, U.S.A.	Pre-leaching or reduction treatment in the beneficiation of titaniferous iron ores,
129.	133124	, 05-10-1971	HALDOR PREDERIK AXEL TOPSOE, Frydenlundsvej, Vedback, Denmark.	Method for catalytic decomposition of ammonia.
130.	133137	06-10-1971	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Process for preparing water-soluble mono- azo dyestuffs.
131.	133139	06-10-1971	Do.	Manufacture of metal complex monoazo dyestuffs,
132.	133172	07-10-1971	ETAT FRAINCHAIS, 4, Avenue dela Paste Dessy, Paris 150, France.	Improved process for the manufacture of phosgene.
133.	133179	08-10-1971	CENTRALNY OSRODEK BADAWS- ZOROZWOJONY PRZEMYSLU BE- TONOW "CEBET", Marywilska 42b, Warszawa 98, Poland.	Method of production of cellular concrete.
134.	133233	14-10-1971	MEAD CORPORATION Tulbolt Town, Dayton Ohio 45402, U.S.A.	Improved reduction oxidation process.
135.	133241	15-10-1971	SHELL INTERNATIONALE RE- SEARCH MAASCHAPPIJ B. V. The Hague, The Netherlands.	Process for the production of methanol.
136.	33325	22-10-1971	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Novel process for the manufacture of benzimidazolene—(-2).
137.	133378	27-10-1971	.Do.	Manufacture of new water soluble fibre- reaction azo dyestuffs.
138.	133408	29-10-1 971	UNION CARRIDE CORPORATION, 270 Park Avenue, New York, State of New York-10017, U.S.A.	Selective absorption gas separation process.
139.	133448	03-11-1971	HINDUSTAN LEVER LTD. Hindustan Lever House, 165-166 Backbay Recla- mation, Bombay-400020, India.	
140.	133612	15-11-1971	EXXON RESEARCH AND ENGINEERING CO., Linden, New Jersey, U.S.A.	Lithium soap grease.
141.	133625	15-11-1971	HALDOR FREDERIK AXEL TOPSOE ? Frydenlundsvej, Vedbaek, Denmark.	Process for the manufacture of ethyl alcohol,
142.	133660	17-11-1971	UBE INDUSTRIES LIMITED, 12-32, 1-chome, Nishihommachi, Uke-shi, Yamaguchi, Japan.	Process for preparation of oxidation catalyst.
143.	133677	19-11-1971	HOECHST AG., 6230 Frankfurt/Main, 80, F.R. GERMANY.	Manufacture of water-soluble monoazo dyestuffs.
144.	133710	23-11-1971	L Do.	Manufacture of copper-comlex [monoa-zodyestuffs.
145.	133711	23-11-1971	THE LUBRIZOL CORPORATION, Cleveland, Ohio 44117, U.S.A.	Method of flocculating solids suspended in an aqueous medium.
146.	133738	25-11-1971	HOECHST AG., 6230, Frankfurt/Main 80, F.R. GERMANY.	
147.	133766	26-11-1971	 (i) METALLGESELLSCHAFT AG., 6 Frankfurt am main Renterweg 14, West Germany. (ii) VEBA-CHEMIL AG., 4660 Glesenkir- chen-Buer Dorstner strasse 227, West 	Process of recovering pure maleic anhydride.
148.	133767	27-01-1973	Germany. Do.	Process for recovering pure maleic anhydride.
149.	133782	29-11-1971	SHELL INTERNATIONALE RE- SEARCH MAATSCHAPPIJ B. V., Cavel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for the manufacture of synthetic fibres and fibres produced threrby.
150.	133819	01-12-1971	HOECHST AG., 6230 Frankfurt/Main 80, F. R. GERMANY.	Manufacturing water-solublemetal complex monoazo dyestuffs.

RENFWAL FEES PAID

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date

of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

- Class 1. No. 150788. Interdica S.A., a Swiss Company of Moncor, Route des Biches-Villars-Sur-Glane, Switzerland. "Spectacles". May 20, 1981.
- Class. 3. No. 150557. U.A. Attarwala, a proprietory concern of 72, Jail Road, North, Shustri Bldg., Opp; J. J. Hospital, Gate No. 6, Bombay-400 009, Maharashtra, "Bottle". March 18, 1981.
- Class. 3. No. 150560. Mrs. Sudarshan Kapoor of 194, Satya Niketan, New Delhi-110021, an Indian Cltizen. "Lettering Stencil Plate". March 18, 1981.
- Class 4. No. 150556. A. A. Attarwala & Company Pvt. Ltd. of 82/84, Clare Road, Near Nagpada Signal, Bombay-400 008, Maharashtra. "Bottle". March 18, 1981.
- Class. 4. No. 150675, McDowell & Co. Ltd. of 3, Second Line Beach, Madras-600 001, Tamil Nadu, India. "Glass Bottle". April 16, 1981.
- Class. 4. No. 150676. McDowell & Co. Ltd., of 3, Second Line Beach, Madras-600 001, Tamil Nadu, India. "Glass Bottle". April 16, 1981.
- Class.4. No. 130677. McDowell & Co. Ltd., of 3 Second Line Beach, Madras-600 001, Tamil Nadu, India. "Glass Bottle". April 16, 1981.
- Class. 4. No. 150678. McDowell & Co. Ltd., of 3, Second Line Beach, Madras-600 001, Tamil Nadu, India. "Glass Bottle". April 16, 1981,
- Class. 4. No. 150679, McDowell & Co. Ltd., of 3, Second Line Beach, Madras-600 001, Tamil Nadu, India. "Glass Bottle". April 16, 1981,

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